



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Toru YOSHIHARA et al.
Title: EXCHANGE EQUIPMENT
Appl. No.: 10/762,577
Filing Date: 1/23/2004
Examiner: Smith, Creighton H.
Art Unit: 2614
Confirmation No.: 3026

AMENDMENT AND REPLY UNDER 37 C.F.R. 1.111

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This communication is responsive to the Non-Final Office Action dated November 15, 2007, concerning the above-referenced patent application.

Amendments to the Specification begin on page 2 of this document.

Amendments to the Claims are reflected in the listing of claims which begins on page 5 of this document.

Remarks/Arguments begin on page 9 of this document.

Please amend the application as follows:

Amendments to the Specification:

Please amend the specification as follows:

Please replace the paragraph bridging pages 6 and 7 (page 6, line 9 to page 7, line 7), with the following rewritten paragraph:

Next, PU portion 13 ~~performing~~ performs a voice conversion under control of a CC portion 12 (described later). The PU portion 13 has a voice compressing function, an operation regulation processing function of G.723.1, a voice packet processing function, a fluctuation absorbing control function, a synchronism compensating function, a DTMF transparent function, a priority control function, a silence suppressing function, and a communication interrupt monitoring function. The voice compressing function of performing performs the compression or expansion of voice data by means of a coding method (G.711, G.729 and G.723.1) ~~[[, a]]~~. The G.723.1 operation prescription processing function of ~~regulating~~ regulates an incoming or outgoing call by judging whether or not selection is to be performed according to the existence or inexistence of G.723.1 ~~[[, a]]~~. The voice packet processing function of ~~performing~~ performs a process of multiplexing packets (a packet generating/analyzing process adapted to different payload types (hereinafter, referred to as PT) such as various coding systems/fax/modem etc.) ~~[[, a]]~~. The fluctuation absorbing control function of ~~preventing~~ prevents the interruption of sound to be caused by fluctuation in a LAN or between networks ~~[[, a]]~~. The synchronism compensating function of ~~adjusting~~ adjusts the slippage in synchronism occurring between apparatuses being opposite to each other ~~[[, a]]~~. The DTMF transmitting function of ~~transmitting~~ transmits or ~~receiving~~ receives a DTMF signal being under communication in a code system other than a voice signal ~~[[, a]]~~. The priority control function of ~~allowing~~ allows communication according to the priority order of packet data determined in order to avoid the interruption of voice to be caused by fluctuation or delay in a network in case that voices and data are intermingled on the same LAN ~~[[, a]]~~. The silence suppressing function of ~~detecting~~ detects a silent state during

conversation, ~~stopping stops~~ sending out packet data during the period of silence, and thereby ~~reducing reduces~~ traffic on the LAN, ~~and a.~~ The communication interrupt monitoring function ~~[[of]]~~, in case that a packet communication with an opposite party is made unable due to a channel failure and the like, ~~performing performs~~ a process of releasing the call as an invalid call.

Please replace the paragraph bridging pages 11 and 12 (page 11, line 7 to page 12, line 6), with the following rewritten paragraph:

~~Next, the~~ The SC portion 14 ~~performing performs~~ a call control with IP network 4. The SC portion 14 has a CC interface portion 144, a protocol conversion portion 142, an original interface portion 143, a PU control portion 146, and a LAN interface portion 145. ~~is provided inside it with a~~ The CC interface portion 144 ~~performing performs~~ a data communication control with CC portion 12, ~~being is~~ connected to a protocol conversion portion 142, a specific interface portion 143, a PU control portion 146 and a maintenance control portion 147 (described later) and ~~performing performs~~ a message communication control between these portions and the CC portion 12~~[[, a]]~~. The protocol conversion portion 142 ~~being is~~ connected to the CC interface portion 144, ~~performing performs~~ an interoffice service by means of SS7 signaling, ~~converting converts~~ a call control message sent from the CC portion 12 into an H.323 call control message and ~~enabling enables~~ communication with terminals adapted to H.323~~[[, a]]~~. The specific interface portion 143 ~~being is~~ connected to the CC interface portion 144 in the same manner and ~~interfacing interfaces~~ with IP-MFT 62 communicating with the exchange 1 by means of a specific protocol~~[[, a]]~~. The PU control portion 146 ~~having has~~ a function of converting specific message reported from CC portion 12 into IP data and ~~reporting reports~~ them to PU portion 13 and ~~reporting reports~~ a message reported from the PU portion 13 to the CC portion 12 for management control of a conventional channel. The PU control portion 146 also a function of performing an initial registration process associating a PKG number and an IP address with each other at the time of log-in from the PU portion 13 in order to manage the registration information of PU portion 13, ~~and further includes a.~~ The LAN interface portion 145 ~~being is~~ connected to the protocol conversion portion 142, the specific interface portion 143, the PU

control portion 146 and the maintenance control portion 147 in the same manner as the CC interface portion 144, ~~performing~~ performs a transmission or reception control of a message from them, being connected to HUB 2 and ~~performing~~ performs a transmission or reception process of IP packet data from the LAN side.

Please replace the paragraph bridging pages 24 and 25 (page 24, line 23 to page 25, line 6), with the following rewritten paragraph:

Hereupon, when the speaker of the IP-MFT 62(b) takes up the ear receiver (hooks off) (S1828), the information being an IP packet type specific message which includes the destination IP address representing the SC portion 14 and the source IP address representing the IP-MFT 62(b), this information is received as an IP packet type specific message (~~the destination address is the SC portion 14 and the IP address of the transmitter side is the IP-MFT 62(b)~~) by the specific interface portion 143 in the SC portion 14 (S1829) and is transferred to the CC portion 12 (S1830). The CC portion 12 which has received it returns a message (added the IP address of the IP-MFT 62(b) being the opposite party) that the IP-MFT 62(a) and the IP-MFT 62(b) converse with each other to the specific interface 143 in the SC portion 14 by return (S1831), and the specific interface portion 143 transfers this information as a specific message to the IP-MFT 62(b) (S1832). Due to this information being received, the IP-MFT 62(b) comes into a channel open state and the preparation for conversation is completed (S1833).

Please replace the first full paragraph on page 25, lines 7-13, with the following rewritten paragraph:

~~And at~~ At the same time as the above operation, the CC portion 12 transfers a message to the IP-MFT 62(a) by using the specific interface 143 in the SC portion 14. (~~added This message is added the IP address of the IP-MFT 62(a) being the opposite party) that to represent to the IP-MFT 62(a) and the IP-MFT 62(b) to allow them to converse with each other to the IP-MFT 62(a) by means of the specific interface 143 in the SC portion 14, and.~~ Then, the IP-MFT 62(a) also completes the preparation for conversation (S1834 and S1835).